

Math 182 Honors Quiz 12 Version A

4. Determine whether the following infinite series converge and explain your answer.

(i)
$$\sum_{n=1}^{\infty} \frac{1}{n+13}$$

(ii)
$$\sum_{n=1}^{\infty} \frac{\log(n+13)}{n^2}$$

(iii)
$$\sum_{n=1}^{\infty} \frac{2^n}{n^n}$$